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T070429

1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403		2. Expected Release Date:  May 15, 1995										
3. Document Type: <table border="0"><tr><td><input type="checkbox"/> Letter</td><td>a. If letter or memo:</td></tr><tr><td><input type="checkbox"/> Memorandum</td><td>To:</td></tr><tr><td><input checked="" type="checkbox"/> Report</td><td>From:</td></tr><tr><td><input type="checkbox"/> Publication</td><td>Subject:</td></tr><tr><td><input type="checkbox"/> Other (Specify)</td><td></td></tr></table> b. If report: Title: MONTHLY ACTIVITY REPORT - ANALYTICAL CHEMISTRY BRANCH AUGUST 22 - SEPTEMBER 21, 1967			<input type="checkbox"/> Letter	a. If letter or memo:	<input type="checkbox"/> Memorandum	To:	<input checked="" type="checkbox"/> Report	From:	<input type="checkbox"/> Publication	Subject:	<input type="checkbox"/> Other (Specify)	
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4. Document Date:  SEPTEMBER 25, 1967	c. If publication: Name: Volume: Issue:											
5. Summary (2-3 lines indicating the major subject(s) of the document): Report on routine analysis of biological samples, water samples, air and dust samples; whole body counts; and statement regarding special activities of collection of blood samples from cows during the CERT 21 test and analysis, setting up of a procedure and running standard curves on antipyrine, conducting Bovine in vivo thyroid counting and processing gamma spectra by computer techniques; etc.												
6. Name and telephone number of person completing form:  Anjan K. Majumder (208) 525-0206	7. Organization:  Lockheed Idaho Technologies Co.	8. Date:  March 23, 1995										

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# HUMAN RADIATION EXPERIMENTS

## RECORDS PROVENANCE FORM

REPOSITORY NAME		INEL
* COLLECTION NAME	ORIGINAL NAME	RESL READING FILES / MONTHLY ACTIVITY REPORTS
	NEW NAME	RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY, FILES OF DOUG CARLSON, DIRECTOR
BOX NUMBER		BOX # 1
ADDITIONAL LOCATION INFORMATION		RESL, CFA-690, ROOM # 102, ON THE FLOOR  FOLDER: MONTHLY ACTIVITY REPORT- ANALYTICAL CHEMISTRY BRANCH, 1958 - 1972
FILE TITLE		MONTHLY ACTIVITY REPORT - ANALYTICAL CHEMISTRY BRANCH - AUGUST 27, 1967 - SEPTEMBER 21, 1967
TOTAL PAGES		
BATE NUMBER RANGE		
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DOCUMENT TITLE: MONTHLY ACTIVITY REPORT - ANALYTICAL CHEMISTRY  
BRANCH - AUGUST 27, 1967 - SEPTEMBER 21, 1967

CROSS REFERENCES:

ITEMS OF INTEREST:

\* A NEW COLLECTION NAME REPLACED THE ORIGINAL DUE TO  
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MONTHLY ACTIVITY REPORTS  
1, RESL CFA-690 Room #102  
MONTHLY ACTIVITY REPORTS -  
ANALYTICAL CHEMISTRY BRANCH  
1958 - 1972

George L. Voelz, M.D., Director  
Health Services Laboratory

September 25, 1967

Claude W. Sill, Chief, Analytical Chemistry Branch  
Health Services Laboratory

MONTHLY ACTIVITY REPORT - ANALYTICAL CHEMISTRY BRANCH  
AUGUST 22 - SEPTEMBER 21, 1967

HSAC:KRP

ROUTINE

Biological Samples (urine, feces, etc.)	660
Water Samples (potable, effluent, etc.)	335
Air Dusts (carbon cartridges, filters, etc.)	128
Whole-Body Analyses	88

RESEARCH

Continued analyzing air samples from Grand Junction, Durango and Monticello for radon 222. Calibrations were made on the radon system. Accuracy of the wet test meter was checked and found to be accurate to  $\pm 5\%$  on volumes of 5 - 14 liters.

Gamma scans, total solids and gross beta counts on water samples from Region I of Compliance were analyzed.

Strontium 89 and 90 mixtures were analyzed by beta absorption measurements to determine the ratio of the isotopes present. Reasonably good results were obtained within one hour after the separation of strontium.

Xenon 133 gas samples were calibrated and then used to calibrate 100 ml. counting vessels. This work was done to assist with the gaseous diffusion studies.

Programs were obtained and work was begun for fitting miscellaneous experimental data by the least squares method employing the 7040 computer.

SPECIAL ACTIVITIES

The Environmental Branch was given assistance with the following services: (1) collection of blood samples from cows during the CERT 21 test and analyzing them for water using antipyrine as the indicator, (2) setting up a procedure and running standard curves on antipyrine, (3) conducting Bovine in vivo thyroid counting, and (4) processing gamma spectra by computer techniques.

George L. Voelz, M.D.

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September 25, 1967

WHOLE BODY COUNTING ACTIVITIES

Whole-body counts at the Health Services Laboratory were as follows: 18 routine, 62 termination and 8 others making a total of 88 counts.

Hq. reading File